

TOP JOBS: 4TH QUARTER, 2014

	Title	Education Level (most often required)	Average hourly wage
1	Heavy and Tractor-Trailer Truck Drivers	High School or Equivalent	\$18.88
2	Retail Salespersons	High School or Equivalent	\$16.79
3	Registered Nurses	Some college, vocational training or Associates degree	\$22.21
4	Software Developers, Applications	Bachelors degree	\$46.31
5	Sales Reps., Wholesale and Manufacturing	Bachelors degree	\$29.63
6	First-line Supervisors of Retail Sales Workers	Some college, vocational training or Associates degree	\$16.79
7	Customer Service Reps.	Some college, vocational training or Associates degree	\$14.60
8	Computer Systems Analysts	Bachelors degree	\$26.85
9	Medical and Health Services Managers	Bachelors degree	\$41.66
10	Commercial Food Prep and Service Workers, including Fast Food	High School or Equivalent	\$9.77

Source: Workforce Intelligence Network

CONSTRUCTION TRADE CAREERS

Careers	Median hourly wage	Median annual salary	Education requirement	Work experience	Training
Landscape	\$12.17	\$25,336	high school diploma or GED	entry	apprenticeship
Electrical Linemen	\$11.14	\$23,176	less than high school	entry	apprenticeship on the job
Construction Laborers	\$11.04	\$23,064	less than high school	entry	short-term (1 day job training)
Ironworkers	\$10.07	\$21,120	high school diploma or GED	entry	apprenticeship
Structural Iron and Steel Erection (Ironing) Employees	\$10.04	\$21,084	high school diploma or GED	entry	apprenticeship
Construction Trades Workers	\$10.00	\$21,000	high school diploma or GED	entry	short-term on the job training

Source: SEMCOG analysis of BLS and MI Labor Market Information

CAREERS IN MANUFACTURING

Careers	Median hourly earnings	Required education level	Estimated annual job openings for region (avg. year)	Estimated annual difficulty to fill
Manufactured engineers	\$45.11	Bachelor's degree	765	1
Technical Sales Engineers and Operators	\$26.15	Post secondary certificate	49	3
Manufacturers	\$21.90	Post secondary certificate	250	5
Product Development Engineers	\$37.25	Bachelor's degree	112	6
Engineers	\$39.02	Bachelor's degree	99	9
General Maintenance and Repair Workers	\$20.20	High school diploma or equivalent	300	10
Machine Operators and related roles	\$20.13	Post secondary certificate or high school diploma or equivalent	176	11

Source: Oakland County Skills Needs Assessment, 2013

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SKILLS GAP

CAUSES

- Economic restructuring
- Education attainment
- Changing skill requirements

SOLUTIONS

- Address Perceptions
- Raise awareness
- Increase Connectivity

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PUBLIC SURVEY

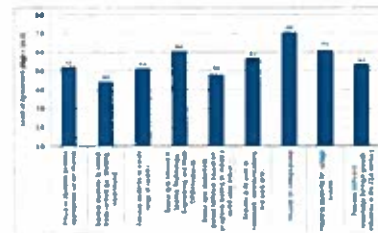
1. WHAT DOES THE PUBLIC EDUCATION SYSTEM FOCUS MOSTLY ON?
2. WHAT LEVEL OF EDUCATION DO YOU THINK IS NECESSARY FOR A WELL-PAYING, SECURE, AND FULFILLING CAREER?
3. WOULD YOU ENCOURAGE YOUR CHILDREN (OR OTHER FAMILY MEMBERS) TO PURSUE A CAREER IN THE SKILLED TRADES?

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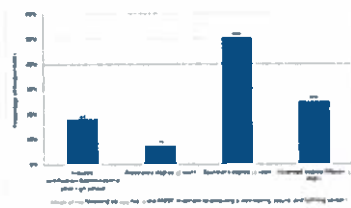
PUBLIC EDUCATION FOCUS???

MACCOG and MACC "Pulse of the Region" Survey on Building a Stronger Workforce
Rate your level of agreement with the following statements regarding the current public education system*



LEVEL OF EDUCATION NEEDED???

MACCOG and MACC "Pulse of the Region" Survey on Building a Stronger Workforce
Which do you feel is the MOST important to obtaining a well-paying, secure, and fulfilling career?



TECHNICAL SKILLS/CAREERS

"A STEM job is any job that requires specialized knowledge in science, technology, engineering or math..."




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RAISING CAREER AWARENESS

- Raising Career Awareness
 - Website for Students
 - Technical Career Continuum
 - Posters and other materials
- Policy Recommendations

 Michigan's Semiconductor Education Center
Developing Regional Solutions

Michigan's Semiconductor Education Center

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 SAGE
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 www.sagepub.com

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THE TECHNICAL CAREER CONTINUUM

Paradox - Preparation - Prosperity
a Prosperity

Technical Career Continuum

Technical Career Continuum

eSSECO

eSSECO



PROMOTING BEST PRACTICES

- Career Awareness
- Career Pathways
- Career Readiness
- Apprenticeships
- Resources

SEACONN
Seaside Occupational Center of Excellence
Promoting Regional Success

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MORE INFORMATION

STEM and Skilled Trades Resources: <http://www.asmcoq.org/Plans-for-the-Region/Economic-Development/Talent>

MI Trade School: www.mitradeschool.org

MIRoad2work: <http://www.miroad2work.org/>

MI-AJM – Michigan Apprenticeships, Internships and Mentoring:
www.Michigan.org/majm

State of Michigan Skilled Trades page: <http://www.mtalent.org/skilled-trades/>

Virtual Job Shadow: <http://www.virtualjobshadow.com/>

asmcoq
Michigan Association of Skilled Trades
Technician Workforce Training & Development
Advancing Regional Business

ASACOG Southwestern Association of College-Oriented Governments
ASACOG Developing Regional Solutions

POLICY RECOMMENDATIONS

- Increasing **student exposure** to technical careers
- Updating graduation **requirements**
- Enhancing **curriculum connectivity**
- Addressing **cost of education**
- Providing HS students with **work experience**
- Overcoming **perception challenges**

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SUMMARY

- Southeast Michigan requires a strong technical pipeline for economic growth
- There are different routes to career success
- Post secondary education is essential to (technical) workplace success
- Many successful programs in the region
- We need your help to provide the infrastructure for all students to be successful

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